EPA Region 5 Records Ctr. 225346

ATTACHMENT II

12

TLD DATA

EXPOSURE PERIOD

31 DAYS

#### DOSIMETER READINGS

### (MREM/EXPOSURE PERIOD)

	TLD			•			
	NUMBER	TLD #1	TLD #2	TLD #3	TLD #4	TLD #5	MEAN
161 E. GRAND	•••••		••••••	•••••		*******	•••••
	9021	3280	3224	3253	3334	2921	3202.4
EXPOSED	9022	182	245	208	226	. 190	210.2
(7/2-8/2, 1993)	9023	33	26	32	39	31*	32.2
•	9024	28	36	35	42	40	36.2
	9025	35	36	44	42	39	39.2
	9026	199	183	251	194	185	202.4
	9027	432	548	436	442	535	478.6
	9028	49	51	56	46	47	49.8
	9029	46	43	35	41	35	40.0
SITE BACKGROUND	9031	17	14	14	12	16	14.6
	9032	15	20	16	13	15	15.8
	9033	33	34	29	40	35	34.2

### LINDSAY LIGHT COMPANY RELATED DOSE READINGS

				CANCER		
		NET	NET	NET DOSE	INCIDENCE	CANCER
		DOSE PER	DOSE PER	PER 2000	RISK PER	INCIDENCE
	TLD	HOUR	40 HOUR	HOUR WORK	2000	RISK PER
	NUMBER		WEEK	YEAR	HOUR WORK	50 WORK
					YEAR	YEARS
		(MREM/HR)	MREM/WK	) (MREM/YR)		
161 E. GRAND	*******		•••••			•••••
•	9021	4.28929	171.6	8578.6	5.3E-03	2.7E-01
EXPOSED	9022	0.26751	10.7	535.0	3.3E-04	1.7E-02
(7/2-8/2, 1993)	9023	0.02827	1.1	56.5	3.5E-05	1.8E-03
	9024	0.03364	1.3	67.3	4.2E-05	2.1E-03
	9025	0.03768	1.5	75.4	4.7E-05	2.3E-03
	9026	0.25703	10.3	514.1	3.2E-04	1.6E-02
	9027	0.62827	25.1	1256.5	7.8E-04	3.9E-02
	9028	0.05192	2.1	103.8	6.5E-05	3.2E-03
	9029	0.03875	1.6	77.5	4.8E-05	2.4E-03
SITE BACKGROUND	9031	0.00461	0.2	9.2	5.7E-06	2.9E-04
. •	9032	0.00622	- 0.2	12.4	7.8E-06	3.9E-04
	9033	0.03096	1.2	61.9	3.9E-05	1.9E-03

# ATTACHMENT V ATSDR RECOMMENDATIONS

#### ATSDR Record of Activity

UID #: PAC4	JID #: PAC 4 D_ce: 9/14/93 Time: 8:30 am						
site Name: Linds	ey Light	City: <u>Chicago</u>	Cnty: s	tate: <u>IL</u>			
CERCLIS #:	Cost Recovery #: 60YL Region: V						
Site Status (1) (2)	_ NPL _ Fed _ Emergency Res	deral _ Non-NPL sponse _ Remedi	_ RCRA _ No:	n-Site specific			
_ Incoming Call _X Outgoing Cal _ Conference Ca _ Incoming Mail	_ Public Meeti l _ Other Me ll _ Data Revie _ Other	Activities ing _ Health eeting _ Health ew _ Written Re	Consult _ Site Referral _ Info sponse _ Train	e Visit <sup>*</sup> Provided ing			
Requestor and Affiliation: (1) Vernita Simon, OSC  Phone: 312 886-3601 Address:  City: State: Zip Code: Contacts and Affiliation							
( )( )( )							
1-cPA	2-USCG		4-STATE ENV	5-STATE HLT			
6-COUNTY HLTH	7-CITY HLTH	8-HOSPITAL	9-LAW ENFORCE	10-FIRE DEPT			
11-POISON CTR	12-PRIV CITZ	13-OTHER	14-UNKNOWN	15-DOD,			
16-DOE	17-NOAA	18-OTHR STATE	19-OTHR COUNTY	20-OTHR CITY			
21-INTL	22-CITZ GROUP	23-ELECT. OFF	24-PRIV. CO	25-NEWS MEDIA			
26-ARHY	27-NAVY	28-AIR FORCE	29-DEF LOG AGCY	30-NRC			
31-ATSOR							
_ Health Assessm _ Petition Asses _x Emergency Res _ Health Consult	ent _ Health S sment _ Health S ponse _ Disease	Studies _ To Survellnc _ To e Regstry _ Sub Regstry _ Healt	ox Info-profile Cox Info-Nonprofost-Spec Resch Ch Education	_ Worker Hlth il _ Admin _ Other			
- meaton consult	acton - Exhost i	vedarth — uealt	II Education				

Na. Ative Summary: As a follow-up to the site visit to Lindsey Light, EPA haz supplied the results of the TLD monitoring at several locations around the city of Chicago that may have radiological contamination. The TLD results were supplied as a function of exposure per week (24 hour exposure). To equate this to exposure of individuals who may receive excessive levels of exposure, the following procedure was used. I used 2000 hours per year for a worker (50 weeks per year, 40 hours per week). The current exposure limit is 100 millirem per year or 0.05 mrem per hour. Since there are 168 hours in a week, any TLD with an exposure of 8.4 millirem per week was considered excessive (168 x 0.05). Using this procedure, 4 TLDs in the 161 E. Grand Avenue location were considered excessive. These were TLD numbers 9021, 9022, 9026, and 9027. 9021 and 9022 appear to be in the basement and it is unlikely that excessive exposures could occur. However, 9026 and 9027 appear to be within an office on the second floor. I would recommend that either that office be vacated and sealed or the office be remediated to a level that is considered radiologically safe (<100 millirem per year).

Action Required/Recommendations/Info Provided: None at this time.

Signature: Paul A. Charp, Ph.D. Date: September 14, 1993

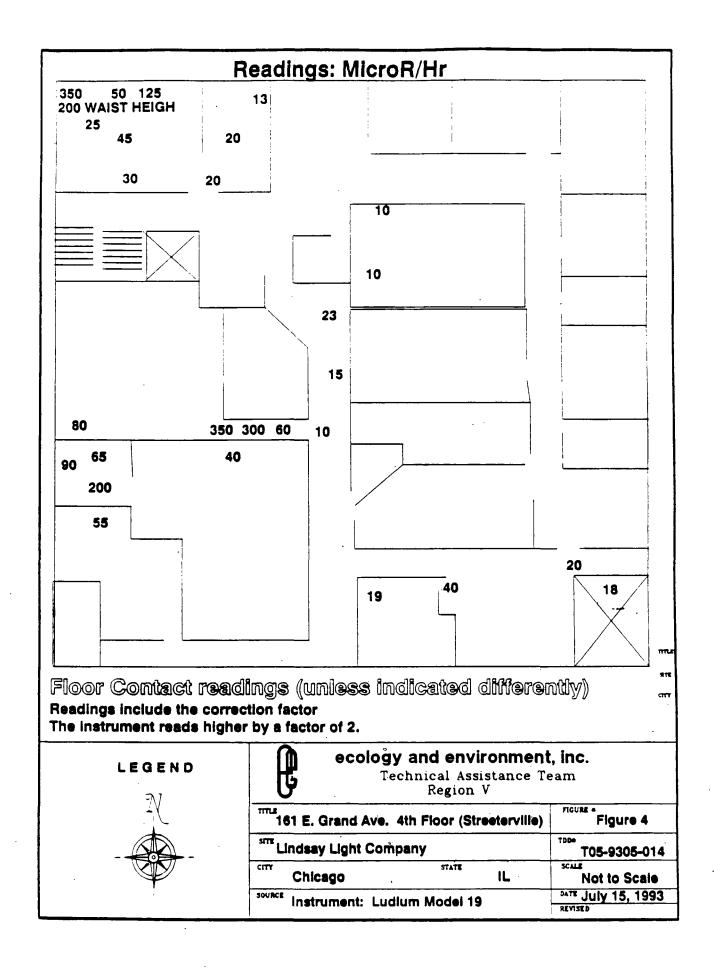
cc:

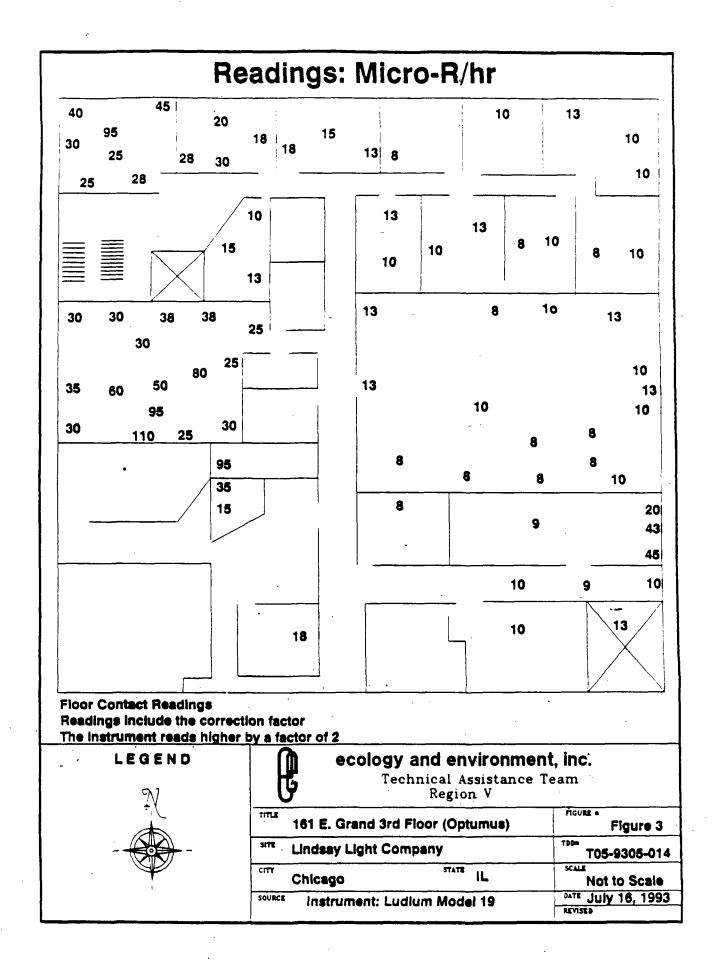
Robert L. Williams, Region V (via email)

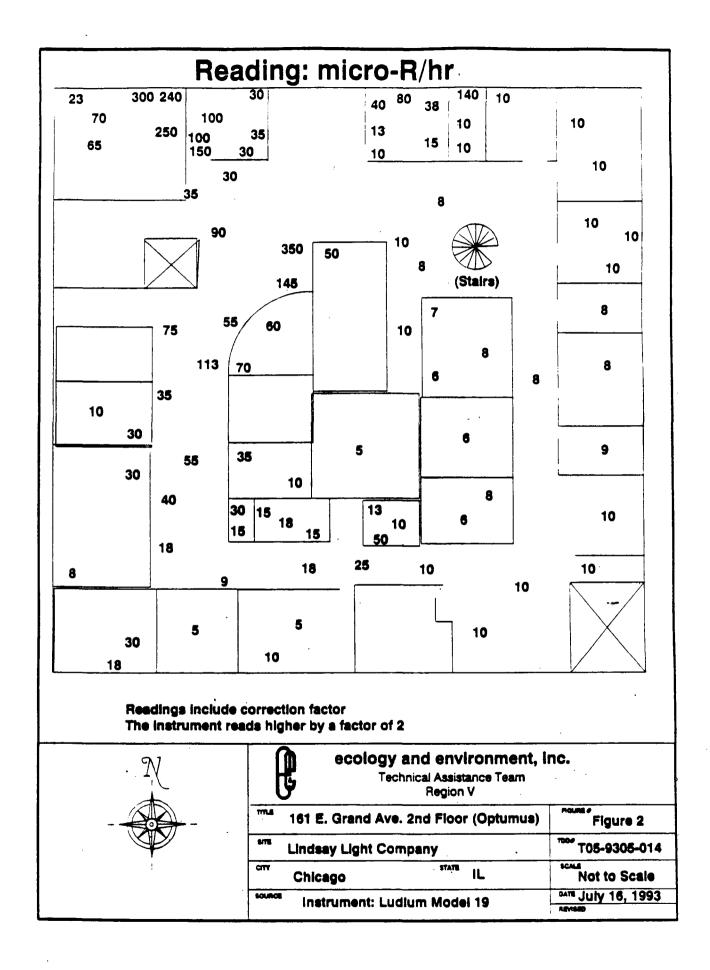
RIMB

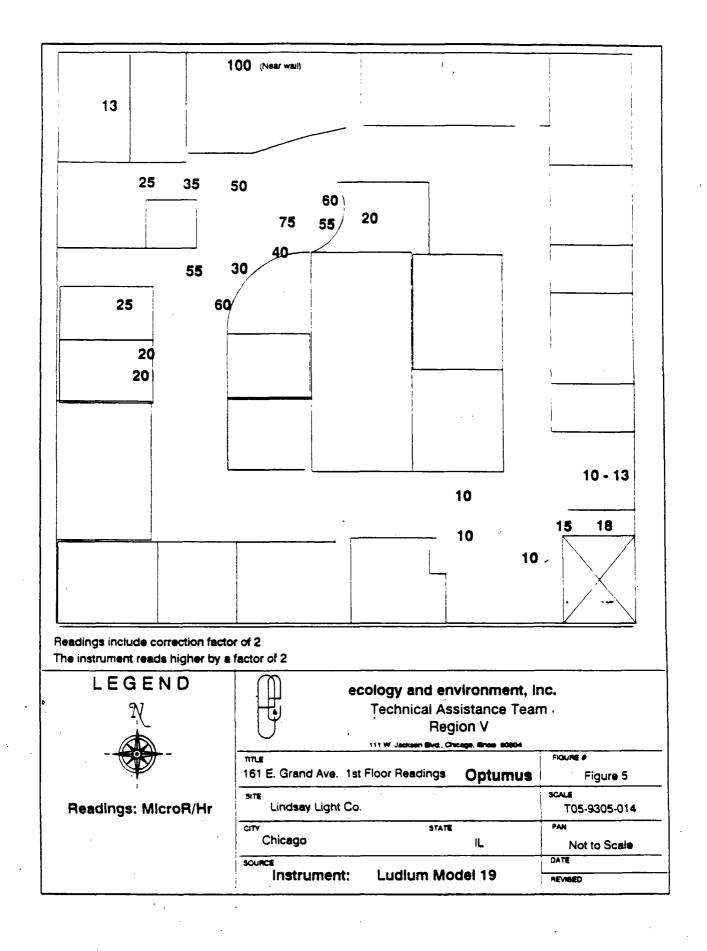
## ATTACHMENT III

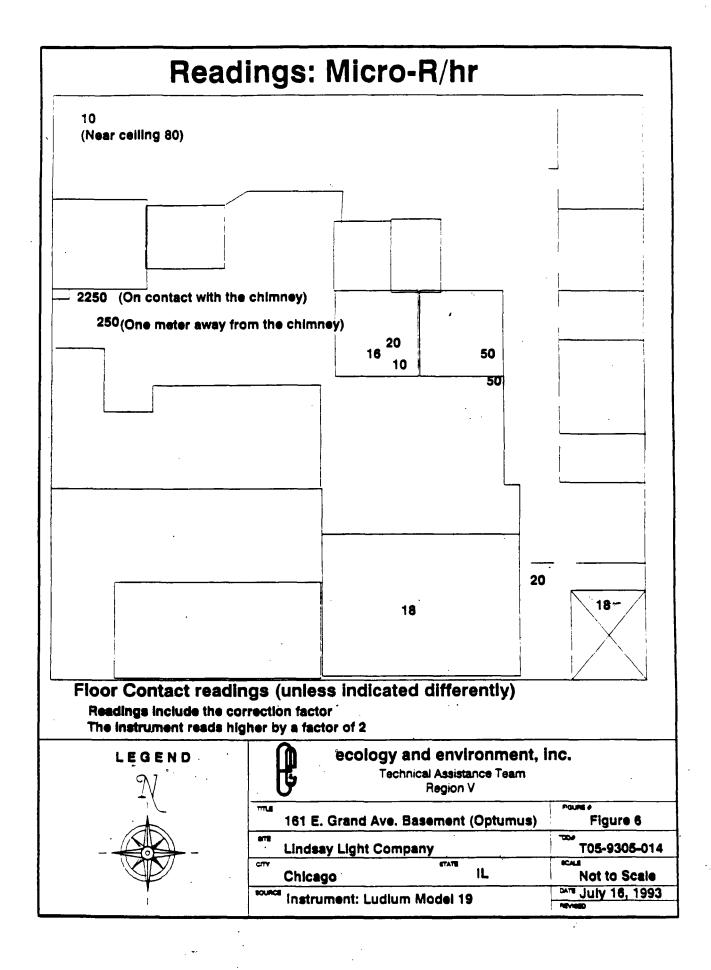
# GAMMA SURVEY MAPS OF LINDSAY LIGHT BUILDING











# ATTACHMENT IV MAPS SHOWING TLD LOCATIONS

